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## OM protein - protein search, using sw model

Run on: October 14, 2003, 17:27:34 ; Search time 66 Seconds

(without alignments)  
114.743 Million cell updates/sec

Title: US-09-480-977-4

Perfect score: 277  
Sequence: 1 HRPCKDKLALYCAINDBCF.....SHKRCRKGQGVRCQDPL 47Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 600653 seqs, 161128416 residues

Total number of hits satisfying chosen parameters: 600653

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

## Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCOT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/ECTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	277	100.0	47	9	US-09-817-647-4
2	277	100.0	47	9	US-09-817-647-8
3	277	100.0	47	10	US-09-877-665-4
4	277	100.0	47	10	US-09-877-665-8
5	277	100.0	47	14	US-10-136-573A-4
6	277	100.0	47	14	US-10-136-573A-8
7	277	100.0	47	15	US-10-215-862-4
8	277	100.0	47	15	US-10-215-862-8
9	277	100.0	360	9	US-09-817-647-7
10	277	100.0	360	10	US-09-877-665-7
11	277	100.0	360	14	US-10-136-573A-7
12	277	100.0	360	15	US-10-215-862-7
13	277	100.0	362	9	US-09-817-647-3
14	277	100.0	362	10	US-09-877-665-3
15	277	100.0	362	14	US-10-136-573A-3

16	277	100.0	362	15	US-10-215-862-3	Sequence 3, Appl
17	277	100.0	696	9	US-09-817-647-23	Sequence 23, Appl
18	277	100.0	696	10	US-09-877-665-23	Sequence 23, Appl
19	277	100.0	696	14	US-10-136-573A-23	Sequence 23, Appl
20	277	100.0	696	15	US-10-215-862-23	Sequence 23, Appl
21	277	100.0	713	9	US-09-817-647-2	Sequence 2, Appl
22	277	100.0	713	9	US-09-877-665-2	Sequence 2, Appl
23	277	100.0	713	14	US-10-136-573A-2	Sequence 2, Appl
24	277	100.0	713	15	US-10-215-862-2	Sequence 2, Appl
25	277	100.0	720	9	US-09-817-647-6	Sequence 6, Appl
26	277	100.0	720	10	US-09-877-665-6	Sequence 6, Appl
27	277	100.0	720	14	US-10-136-573A-6	Sequence 6, Appl
28	277	100.0	720	15	US-10-215-862-6	Sequence 6, Appl
29	113.5	41.0	49	9	US-09-817-647-14	Sequence 14, Appl
30	113.5	41.0	49	10	US-09-877-665-14	Sequence 14, Appl
31	113.5	41.0	49	14	US-10-136-573A-14	Sequence 14, Appl
32	113.5	41.0	49	15	US-10-215-862-14	Sequence 14, Appl
33	113.5	41.0	50	14	US-10-096-241-12	Sequence 12, Appl
34	113.5	41.0	66	16	US-10-082-747A-2	Sequence 2, Appl
35	113.5	41.0	95	15	US-10-022-609-12	Sequence 12, Appl
36	113.5	41.0	99	9	US-09-795-668-35	Sequence 35, Appl
37	113.5	41.0	99	9	US-09-795-668-35	Sequence 35, Appl
38	113.5	41.0	99	10	US-09-846-807-35	Sequence 35, Appl
39	113.5	41.0	125	9	US-09-795-668-30	Sequence 30, Appl
40	113.5	41.0	125	9	US-09-795-668-30	Sequence 30, Appl
41	113.5	41.0	125	10	US-09-946-807-30	Sequence 30, Appl
42	113.5	41.0	456	9	US-09-795-668-17	Sequence 17, Appl
43	113.5	41.0	456	9	US-09-795-668-17	Sequence 17, Appl
44	113.5	41.0	456	10	US-09-846-807-17	Sequence 17, Appl
45	113.5	41.0	632	9	US-09-795-668-16	Sequence 16, Appl

## ALIGNMENTS

RESULT 1  
US-09-817-647-4  
Sequence 4, Application US/09817647  
Patent No. JUS2002Q082229A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb-floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Minipat (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/817,647  
FILING DATE: 26-Mar-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/107,979  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1-2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/952-2066  
TELEFAX: 650/952-9681  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids

TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: NR33 EGF-like domain/amino acid seq.  
LOCATION: 1-47  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-817-647-4

Query Match 100.0%; Score 277; DB 9; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9.1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47  
DB 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47

## RESULT 2

US-09-817-647-8  
Sequence 8, Application US/09817647  
Patent No. US20020082229A1

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSER: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/817,647

FILING DATE: 26-Mar-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/107,979

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Deirdre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1-2

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: NR33 EGF-like domain/amino acid seq.

LOCATION: 1-47

IDENTIFICATION METHOD:

OTHER INFORMATION:

SEQUENCE DESCRIPTION: SEQ ID NO: 8:

US-09-817-647-8

Query Match 100.0%; Score 277; DB 9; Length 47;

Best Local Similarity 100.0%; Pred. No. 9.1e-27;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47  
DB 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47

DB 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47

## RESULT 3

US-09-877-665-4  
Sequence 4, Application US/09877665  
Patent No. US20020164680A1

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSER: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/877,665

FILING DATE: 08-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/109,206

FILING DATE: 30-Jun-1998

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Deirdre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1-1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: NR33 EGF-like domain/amino acid seq.

LOCATION: 1-47

IDENTIFICATION METHOD:

OTHER INFORMATION:

SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-877-665-4

Query Match 100.0%; Score 277; DB 10; Length 47;

Best Local Similarity 100.0%; Pred. No. 9.1e-27;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47  
DB 1 HFKPCRDKLAYCLNDGECFVIELTGTSHKRCRCKEGYGVRCDFL 47

## RESULT 4

US-09-877-665-8  
Sequence 8, Application US/09877665  
Patent No. US20020164680A1

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSER: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Winpatin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/877,665  
FILING DATE: 08-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US/09/109,206  
FILING DATE: 30-Jun-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: NR3 EGF-like domain/amino acid seq.  
LOCATION: 1-47  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
US-09-877-665-8  
Query Match 100.0%; Score 277; DB 10; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9,1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47  
1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47  
RESULT 5  
US-10-136-573A-4  
Sequence 4, Application US/10136573A  
Publication No. US20020161200A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
FILE REFERENCE: P1084R1C2  
CURRENT APPLICATION NUMBER: US/10/136,573A  
PRIOR FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: US 09/480,977  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO 4  
LENGTH: 47  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-136-573A-4  
Query Match 100.0%; Score 277; DB 14; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9,1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 6  
US-10-136-573A-8  
Sequence 8, Application US/10136573A  
Publication No. US20020161200A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
FILE REFERENCE: P1084R1C2  
CURRENT APPLICATION NUMBER: US/10/136,573A  
PRIOR FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: US 09/480,977  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO 8  
LENGTH: 47  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-136-573A-8  
Query Match 100.0%; Score 277; DB 14; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9,1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47  
1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47  
RESULT 7  
US-10-215-862-4  
Sequence 4, Application US/10215862  
Publication No. US20030036166A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
FILE REFERENCE: P1084R1D2C1  
CURRENT APPLICATION NUMBER: US/10/215,862-  
PRIOR FILING DATE: 2002-09-24  
PRIOR APPLICATION NUMBER: US 09/126,663  
PRIOR FILING DATE: 1998-07-30  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO 4  
LENGTH: 47  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-215-862-4  
Query Match 100.0%; Score 277; DB 15; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9,1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47  
1 HFKPCRDKLAVCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 47

Db 1.HFKPCRDKDLAYCLNDGECFVIEITLGSNHCRCCKEGYGVRCDOPL 47

## RESULT 8

US-10-215-862-8  
; Sequence 8, Application US/10215862  
; Publication No. US20030036166A1  
; GENERAL INFORMATION:  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Mark, Melanie Rose  
; APPLICANT: Zhang, Dong Xiao  
; TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; FILE REFERENCE: P1084R1D2C1  
; CURRENT APPLICATION NUMBER: US/10/215,862  
; CURRENT FILING DATE: 2002-09-24  
; PRIOR APPLICATION NUMBER: US 09/126,663  
; PRIOR FILING DATE: 1998-07-30  
; PRIOR APPLICATION NUMBER: US 08/899,437  
; PRIOR FILING DATE: 1997-07-24  
; PRIOR APPLICATION NUMBER: US 60/052,019  
; PRIOR FILING DATE: 1997-07-09  
; NUMBER OF SEQ ID NOS: 23  
; SEQ ID NO 8  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-215-862-8

Query Match 100.0%; Score 277; DB 15; Length 47;  
Best Local Similarity 100.0%; Pred. No. 9, 1e-27;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1.HFKPCRDKDLAYCLNDGECFVIEITLGSNHCRCCKEGYGVRCDOPL 47  
Db 1.HFKPCRDKDLAYCLNDGECFVIEITLGSNHCRCCKEGYGVRCDOPL 47

## RESULT 9

US-09-817-647-7  
; Sequence 7, Application US/09817647  
; Patent No. US20020082229A1  
; GENERAL INFORMATION:  
; APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
; TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
; TITLE OF INVENTION: Ligands and Uses Therefor  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 1 DNA Way  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Winpatin (Genentech)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/817,647  
; FILING DATE: 26-Mar-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/107,979  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Conley, Delidre L.  
; REGISTRATION NUMBER: 36,487  
; REFERENCE/DOCKET NUMBER: P1084R1-2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650/225-2066  
; TELEFAX: 650/952-9881

## INFORMATION FOR SEQ ID NO: 7:

## SEQUENCE CHARACTERISTICS:

LENGTH: 360 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear

## FEATURE:

NAME/KEY: hNRG3 extracellular domain/Amino AcidsSeq

LOCATION: 1-360

IDENTIFICATION METHOD:

OTHER INFORMATION:

US-09-817-647-7

Query Match 100.0%; Score 277; DB 9; Length 360;  
Best Local Similarity 100.0%; Pred. No. 7, 3e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1.HFKPCRDKDLAYCLNDGECFVIEITLGSNHCRCCKEGYGVRCDOPL 47  
Db 286.HFKPCRDKDLAYCLNDGECFVIEITLGSNHCRCCKEGYGVRCDOPL 332

## RESULT 10

US-09-877-665-7  
; Sequence 7, Application US/09877665  
; Patent No. US20020164680A1  
; GENERAL INFORMATION:  
; APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
; TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
; TITLE OF INVENTION: Ligands and Uses Therefor  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 1 DNA Way  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/877,665

FILING DATE: 08-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/109,206

FILING DATE: 30-Jun-1998

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1-1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 360 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: hNRG3 extracellular domain/Amino AcidsSeq

LOCATION: 1-360

IDENTIFICATION METHOD:

OTHER INFORMATION:

US-09-877-665-7

Query Match 100.0%; Score 277; DB 10; Length 360;  
Best Local Similarity 100.0%; Pred. No. 7, 3e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 47  
DB 286 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 332

RESULT 11  
US-10-136-573A-7.  
Sequence 7, Application US/10136573A  
Publication No. US20020161200A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Mark, Melanie Rose  
APPLICANT: Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
FILE REFERENCE: P1084R1C2  
CURRENT APPLICATION NUMBER: US/10/136,573A  
CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: US 09/480,977  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO 7  
LENGTH: 360  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-136-573A-7

Query Match 100.0%; Score 277; DB 14; Length 360;  
Best Local Similarity 100.0%; Pred. No. 7, 3e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 47  
DB 286 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 332

RESULT 12  
US-10-215-862-7  
Sequence 7, Application US/10215862  
Publication No. US20030036166A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Mark, Melanie Rose  
APPLICANT: Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
FILE REFERENCE: P1084R1D2C1  
CURRENT APPLICATION NUMBER: US/10/215,862  
CURRENT FILING DATE: 2002-09-24  
PRIOR APPLICATION NUMBER: US 09/126,663  
PRIOR FILING DATE: 1998-07-30  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO 7  
LENGTH: 360  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-215-862-7

Query Match 100.0%; Score 277; DB 15; Length 360;  
Best Local Similarity 100.0%; Pred. No. 7, 3e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 47

DB 286 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 332

RESULT 13  
US-09-817-647-3  
Sequence 3, Application US/09817647  
Patent No. US20020082229A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Winpatin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/817,647  
FILING DATE: 26-Mar-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/107,979  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1-2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9681  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 362 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: mnr3 extracellular domain/amino acid seq  
LOCATION: 1-362  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-817-647-3

Query Match 100.0%; Score 277; DB 9; Length 362;  
Best Local Similarity 100.0%; Pred. No. 7, 4e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 47  
DB 286 HRPKCRDIDLAVCLNDGECFVLETLTGSHKRCRCKEGYGVRCDOFL 334

RESULT 14  
US-09-877-665-3  
Sequence 3, Application US/09877665  
Patent No. US20020164680A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco

STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/877,665  
FILING DATE: 08-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/109,206  
FILING DATE: 30-Jun-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Deirdre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 362 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: mnrG3 extracellular domain amino acid seq  
LOCATION: 1-362  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-877-665-3

Query Match 100.0%; Score 277; DB 10; Length 362;  
Best Local Similarity 100.0%; Pred. No. 7,4e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRKDLAYCLNDGECFVIELTGTGSHGRCRCKEGYGVRCDFL 47  
DB 288 HFKPCRKDLAYCLNDGECFVIELTGTGSHGRCRCKEGYGVRCDFL 334

RESULT 15  
US-10-136-573A-3  
Sequence 3, Application US/10136573A  
Publication No. US20020161200A1  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J.  
APPLICANT: Zhang, Melanie Rose  
TITLE OR INVENTION: ErbB Receptor-Specific Neuregulin Related Ligands and  
TITLE OR INVENTION: Uses therefor  
FILE REFERENCE: P1084R1C2  
CURRENT APPLICATION NUMBER: US/10/136,573A  
CURRENT FILING DATE: 2002-04-29  
PRIOR APPLICATION NUMBER: US 09/480,977  
PRIOR FILING DATE: 2000-01-11  
PRIOR APPLICATION NUMBER: US 08/899,437  
PRIOR FILING DATE: 1997-07-24  
PRIOR APPLICATION NUMBER: US 60/052,019  
PRIOR FILING DATE: 1997-07-09  
NUMBER OF SEQ ID NOS: 23  
SEQ ID NO: 3  
LENGTH: 362  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-136-573A-3

Query Match 100.0%; Score 277; DB 14; Length 362;  
Best Local Similarity 100.0%; Pred. No. 7,4e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRKDLAYCLNDGECFVIELTGTGSHGRCRCKEGYGVRCDFL 47  
DB 288 HFKPCRKDLAYCLNDGECFVIELTGTGSHGRCRCKEGYGVRCDFL 334

Search completed: October 14, 2003, 17:38:30  
Job time : 67 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: October 14, 2003, 17:21:09, Search time 29 seconds  
(without alignments)  
68.573 Million cell updates/sec

Title: US-09-480-977-4  
277

Perfect score: 1 HPRKCRKDLAYCLNDGECF.....SHHRCCKRGYGVRCDFL 47  
Sequence: 277

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents AA:\*

1: /cgn2\_6/prodata/1/aa/5A\_COMB.pep:\*  
2: /cgn2\_6/prodata/1/aa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/aa/5A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/aa/5B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	277	100.0	47	US-08-899-437-4	Sequence 4, Appl
2	277	100.0	47	US-08-899-437-8	Sequence 8, Appl
3	277	100.0	47	US-09-126-121-4	Sequence 4, Appl
4	277	100.0	47	US-09-126-121-8	Sequence 8, Appl
5	277	100.0	48	US-09-553-769-6	Sequence 6, Appl
6	277	100.0	360	US-08-899-437-7	Sequence 7, Appl
7	277	100.0	360	US-09-126-121-7	Sequence 7, Appl
8	277	100.0	362	US-08-899-437-3	Sequence 3, Appl
9	277	100.0	362	US-09-126-121-3	Sequence 3, Appl
10	277	100.0	696	US-08-899-437-23	Sequence 23, Appl
11	277	100.0	696	US-09-126-121-23	Sequence 23, Appl
12	277	100.0	713	US-08-899-437-2	Sequence 2, Appl
13	277	100.0	713	US-09-126-121-2	Sequence 2, Appl
14	277	100.0	720	US-08-899-437-6	Sequence 6, Appl
15	277	100.0	720	US-09-126-121-6	Sequence 6, Appl
16	116.5	42.1	52	US-08-417-640A-1	Sequence 1, Appl
17	116.5	42.1	52	US-08-760-815-1	Sequence 1, Appl
18	116.5	42.1	52	US-08-761-038-1	Sequence 1, Appl
19	116.5	42.1	52	US-09-238-182-1	Sequence 1, Appl
20	113.5	41.0	49	US-08-899-437-14	Sequence 14, Appl
21	113.5	41.0	49	US-09-126-121-14	Sequence 14, Appl
22	113.5	41.0	50	US-08-753-007A-12	Sequence 12, Appl
23	113.5	41.0	50	US-09-398-486-12	Sequence 12, Appl
24	113.5	41.0	52	US-08-417-640A-3	Sequence 3, Appl
25	113.5	41.0	52	US-08-760-815-3	Sequence 3, Appl
26	113.5	41.0	52	US-08-761-038-3	Sequence 3, Appl
27	113.5	41.0	54	US-08-179-481-111	Sequence 11, Appl

28	113.5	41.0	63	3	US-08-341-018-62	Sequence 62, Appl
29	113.5	41.0	63	3	US-08-470-335-221	Sequence 221, App
30	113.5	41.0	63	3	US-08-470-339-221	Sequence 221, App
31	113.5	41.0	63	4	US-08-467-602-415	Sequence 415, App
32	113.5	41.0	66	1	US-07-847-743B-10	Sequence 10, Appl
33	113.5	41.0	66	1	US-08-456-201-10	Sequence 10, Appl
34	113.5	41.0	66	2	US-08-456-241-10	Sequence 10, Appl
35	113.5	41.0	66	3	US-09-020-880-2	Sequence 2, Appl
36	113.5	41.0	66	4	US-09-101-544-2	Sequence 2, Appl
37	113.5	41.0	66	5	PCT-US92-04295A-10	Sequence 10, Appl
38	113.5	41.0	83	3	US-08-341-018-70	Sequence 70, Appl
39	113.5	41.0	83	3	US-08-470-335-225	Sequence 225, App
40	113.5	41.0	83	3	US-08-470-339-225	Sequence 225, App
41	113.5	41.0	83	4	US-08-467-602-419	Sequence 419, App
42	113.5	41.0	88	3	US-08-341-018-68	Sequence 68, Appl
43	113.5	41.0	88	3	US-08-470-335-224	Sequence 224, App
44	113.5	41.0	88	3	US-08-470-339-224	Sequence 224, App
45	113.5	41.0	88	4	US-08-467-602-418	Sequence 418, App

## ALIGNMENTS

RESULT 1  
US-08-899-437-4  
Sequence 4, Application US/08899437  
Patent No. 6121415  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: E2b Receptor-Specific Neuregulin Related  
NUMBER OF INVENTION: Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Minipat (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/899,437  
FILING DATE: 24-Jul-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delaire, L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO.: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: NRG EGF-like domain/amino acid seq.  
LOCATION: 1-47  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-08-899-437-4

Query Match 100.0%; Score 277; DB 3; Length 47;  
Best Local Similarity 100.0%; Pred. No. 1.8e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 HPRKCRKDLAYCLNDGECFVETLTGSHHRCCKRGYGVRCDFL 47  
|||||

Db 1 HFKPCRDKLAVCLANDGECFVIEITLGSNKHCRCKEGYGVRCDOPL 47

## RESULT 2

US-08-899-437-8  
Sequence 8, Application US/08089437  
Patent No. 6121415

## GENERAL INFORMATION:

APPLICANT: Godowaki, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF INVENTIONS: 1  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Winpatin (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/899,437  
FILING DATE: 24-Jul-1997  
CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/952-9881  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 8:

## SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear

## FEATURE:

NAME/KEY: NR3 EGF-like domain/amino acid seq.

## LOCATION: 1-47

## IDENTIFICATION METHOD:

## OTHER INFORMATION:

US-08-899-437-8  
Query Match 100.0%; Score 277; DB 3; Length 47;  
Best Local Similarity 100.0%; Pred. No. 1.8e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HFKPCRDKLAVCLANDGECFVIEITLGSNKHCRCKEGYGVRCDOPL 47

Db 1 HFKPCRDKLAVCLANDGECFVIEITLGSNKHCRCKEGYGVRCDOPL 47

## RESULT 3

US-09-126-121-4  
Sequence 4, Application US/09126121  
Patent No. 6252051

## GENERAL INFORMATION:

APPLICANT: Godowaki, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF INVENTIONS: 1  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/126,121

FILING DATE: 30-Jul-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/952-9881

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: NR3 EGF-like domain/amino acid seq.

LOCATION: 1-47

IDENTIFICATION METHOD:

OTHER INFORMATION:

US-09-126-121-4

Query Match 100.0%; Score 277; DB 3; Length 47;

Best Local Similarity 100.0%; Pred. No. 1.8e-26;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HFKPCRDKLAVCLANDGECFVIEITLGSNKHCRCKEGYGVRCDOPL 47

Db 1 HFKPCRDKLAVCLANDGECFVIEITLGSNKHCRCKEGYGVRCDOPL 47

## RESULT 4

US-09-126-121-8  
Sequence 8, Application US/09126121  
Patent No. 6252051

## GENERAL INFORMATION:

APPLICANT: Godowaki, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF INVENTIONS: 1  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

## COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/126,121

FILING DATE: 30-Jul-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/952-9881

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear



FEATURE:  
NAME/KEY: NR03 EGF-like domain/amino acid seq.  
LOCATION: 1-47  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-09-126-121-8

Query Match 100.0%; Score 277; DB 3; Length 47;  
Best Local Similarity 100.0%; Pred. No. 1.8e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 47  
Db 1 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 47

RESULT 5  
US-09-553-769-6  
Sequence 6, Application US/09553769  
Patent No. 6544759  
GENERAL INFORMATION:  
APPLICANT: Harati, Daniel  
APPLICANT: Yarden, Yosef  
TITLE OF INVENTION: NOVEL GROWTH FACTOR WHICH ACTS THROUGH ErbB-4 RECEPTOR TYROSINE K  
FILE REFERENCE: 00/20522  
SEQUENCES ENCODING SAME AND USES THEREOF  
CURRENT APPLICATION NUMBER: US/09/553,769  
CURRENT FILING DATE: 2000-04-21  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Patentin version 3.0  
SEQ ID NO: 6  
LENGTH: 48  
TYPE: PRT  
ORGANISM: Mus musculus  
US-09-553-769-6

Query Match 100.0%; Score 277; DB 4; Length 48;  
Best Local Similarity 100.0%; Pred. No. 1.8e-26;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 47  
Db 2 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 48

RESULT 6  
US-08-899-437-7  
Sequence 7, Application US/08899437  
Patent No. 6121415  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/899,437  
FILING DATE: 24-Jul-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 360 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: hNRG3 extracellular domain/Amino AcidSeq  
LOCATION: 1-360  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-08-899-437-7

Query Match 100.0%; Score 277; DB 3; Length 360;  
Best Local Similarity 100.0%; Pred. No. 1.5e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 47  
Db 286 HFKPCRDKLAYCLNDECFVETLTGSHKRCCKEGYGVRCDOFL 332

RESULT 7  
US-09-126-121-7  
Sequence 7, Application US/09126121  
Patent No. 6252051  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/126,121  
FILING DATE: 30-Jul-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 360 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: hNRG3 extracellular domain/Amino AcidSeq  
LOCATION: 1-360  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-09-126-121-7

Query Match 100.0%; Score 277; DB 3; Length 360;  
Best Local Similarity 100.0%; Pred. No. 1.5e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 47  
DB 286 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 332

## RESULT 8

US-08-899-437-3  
Sequence 3, Application US/08899437  
Patent No. 6121415

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related

NUMBER OF SEQUENCES: 23  
Ligands and Uses Therefor

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpacin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/899,437

FILING DATE: 24-Jul-1997

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 362 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: mNRG3 extracellular domain amino acid seq

LOCATION: 1-362

IDENTIFICATION METHOD:

OTHER INFORMATION:

US-08-899-437-3

Query Match 100.0%; Score 277; DB 3; Length 362;

Best Local Similarity 100.0%; Pred. No. 1.5e-25;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 47

DB 286 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 334

## RESULT 9

US-09-126-121-3  
Sequence 3, Application US/09126121  
Patent No. 6252051

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related

NUMBER OF SEQUENCES: 23  
Ligands and Uses Therefor

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpacin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/126,121

FILING DATE: 30-Jul-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1D1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 362 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

FEATURE:

NAME/KEY: mNRG3 extracellular domain amino acid seq

LOCATION: 1-362

IDENTIFICATION METHOD:

OTHER INFORMATION:

US-09-126-121-3

Query Match 100.0%; Score 277; DB 3; Length 362;

Best Local Similarity 100.0%; Pred. No. 1.5e-25;

Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 47

DB 286 HFKPCRDNDLAYCINDGECFVETLTGSHKRCRCBGYGVCDCDPL 334

## RESULT 10

US-08-899-437-23  
Sequence 23, Application US/08899437  
Patent No. 6121415

## GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related

NUMBER OF SEQUENCES: 23  
Ligands and Uses Therefor

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Winpacin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/899,437

FILING DATE: 24-Jul-1997

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.

REGISTRATION NUMBER: 36,487

REFERENCE/DOCKET NUMBER: P1084R1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-2066

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 696 amino acids

TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: Human NR3B2  
LOCATION: 1-696  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-08-899-437-23

Query Match 100.0%; Score 277; DB 3; Length 696;  
Best Local Similarity 100.0%; Pred. No. 2,9e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 47  
DB 286 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 332

RESULT 11

US-09-126-121-23  
Sequence 23, Application US/09126121  
Patent No. 6253051

GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/126,121  
FILING DATE: 30-Jul-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1D1  
TELEPHONE: 650/952-9881  
TELEFAX: 650/952-2066  
TELECOMMUNICATION INFORMATION:  
INFORMATION FOR SEQ ID NO: 23:

SEQUENCE CHARACTERISTICS:

LENGTH: 696 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear

FEATURES:

NAME/KEY: Human NR3B2  
LOCATION: 1-696  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-09-126-121-23

Query Match 100.0%; Score 277; DB 3; Length 696;  
Best Local Similarity 100.0%; Pred. No. 2,9e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 47  
DB 286 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 332

RESULT 12  
US-08-899-437-2

Sequence 2, Application US/08899437  
Patent No. 6121415

GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/899,437  
FILING DATE: 24-Jul-1997  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1  
TELEPHONE: 650/952-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 713 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear

FEATURES:

NAME/KEY: Mouse NR3 (mNR3)/amino acid seq.  
LOCATION: 1-713  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-08-899-437-2

Query Match 100.0%; Score 277; DB 3; Length 713;

Best Local Similarity 100.0%; Pred. No. 2,9e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 47  
DB 286 HFKPCRDKLAVCLNDGECFVETLTGSHKRCCKRGYGVRCDOFL 334

RESULT 13

US-09-126-121-2  
Sequence 2, Application US/09126121  
Patent No. 6253051

GENERAL INFORMATION:

APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/126.121  
FILING DATE: 30-Jul-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 713 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: Mouse NR3 (MNR3)/amino acid seq.  
LOCATION: 1-713  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-09-126-121-2

Query Match 100.0%; Score 277; DB 3; Length 713;  
Best Local Similarity 100.0%; Pred. No. 2,9e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 288 HFKPCRDKLAYCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 334

RESULT 14  
US-08-899-437-6  
Sequence 6, Application US/08899437  
Patent No. 6121415  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
TITLE OF INVENTION: Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/899,437  
FILING DATE: 24-Jul-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 720 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: hNR3B1 amino acid sequence  
LOCATION: 1-720  
IDENTIFICATION METHOD:  
OTHER INFORMATION:

US-08-899-437-6

Query Match 100.0%; Score 277; DB 3; Length 720;  
Best Local Similarity 100.0%; Pred. No. 3e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 286 HFKPCRDKLAYCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 332

RESULT 15  
US-09-126-121-6  
Sequence 6, Application US/09126121  
Patent No. 8252051  
GENERAL INFORMATION:  
APPLICANT: Godowski, Paul J., Mark, Melanie Rose, Zhang, Dong Xiao  
TITLE OF INVENTION: ErbB Receptor-Specific Neuregulin Related  
TITLE OF INVENTION: Ligands and Uses Therefor  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/126,121  
FILING DATE: 30-Jul-1998  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Conley, Delidre L.  
REGISTRATION NUMBER: 36,487  
REFERENCE/DOCKET NUMBER: P1084R1D1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-2066  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 720 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
FEATURE:  
NAME/KEY: hNR3B1 amino acid sequence  
LOCATION: 1-720  
IDENTIFICATION METHOD:  
OTHER INFORMATION:  
US-09-126-121-6

Query Match 100.0%; Score 277; DB 3; Length 720;  
Best Local Similarity 100.0%; Pred. No. 3e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 286 HFKPCRDKLAYCLNDGECFVETLTGSHKCRCKEGYGVRCDFL 332

Search completed: October 14, 2003, 17:30:00  
Job time: 30 secs